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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
E. LESTER JONES, DIRECTOR

CATALOGUE
OF
CHARTS, COAST PILOTS, AND
TIDE TABLES
OF THE
PHILIPPINE ISLANDS

PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY

MAY 1, 1921



WASHINGTON
GOVERNMENT PRINTING OFFICE
1921

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(1929)

EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS.

All U. S. Coast and Geodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED
FOR INFORMATION RECEIVED TO DATE OF ISSUE (date).

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed.

This note reads as follows:

AUTHORITIES:

SURVEYS (date).

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated.

When a new chart is issued, the date (month and year) is printed in the publication note.

PUBLISHED AT WASHINGTON, D. C. (date),
BY THE U. S. COAST AND GEODETIC SURVEY
E. LESTER JONES, Director.

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20-6/30, 7/22, 21-2/3, 5/27.

EXPLANATORY NOTES.

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

SAILING CHART.—Scale, 1 : 1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys and such natural landmarks as may be visible at a considerable distance.

GENERAL CHARTS OF THE COAST.—Scales from 1 : 400,000 to 1 : 800,000. They are intended for coastwise navigation when the vessel's course would mostly lie within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

COAST CHARTS.—Scales from 1 : 100,000 to 1 : 200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

HARBOR CHARTS.—Scales from 1 : 5,000 to 1 : 80,000. They are intended for navigation of harbors and small waterways.

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CHARTS, COAST PILOTS, TIDE TABLES, AND NOTICE TO MARINERS RELATING TO THE PHILIPPINE ISLANDS PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY.

The charts are arranged in this catalogue in numerical order and the limits of the charts are graphically shown on diagrams on adjoining pages.

Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.

Philippine Islands:

Cebu—Pacific Commercial Co.

Iloilo—Hoskyn & Co.

Manila—Luzon Stevedoring Co., Water front foot of Calle Madrid.

 U. S. Coast and Geodetic Survey Field Station, Intendencia Building.

Zamboanga—Ohta Development Co.

Hawaii:

Honolulu—Hawaiian News Co.

COAST PILOTS.

Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1919. Price, 50 cents.

Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas 1920. Price, 50 cents.

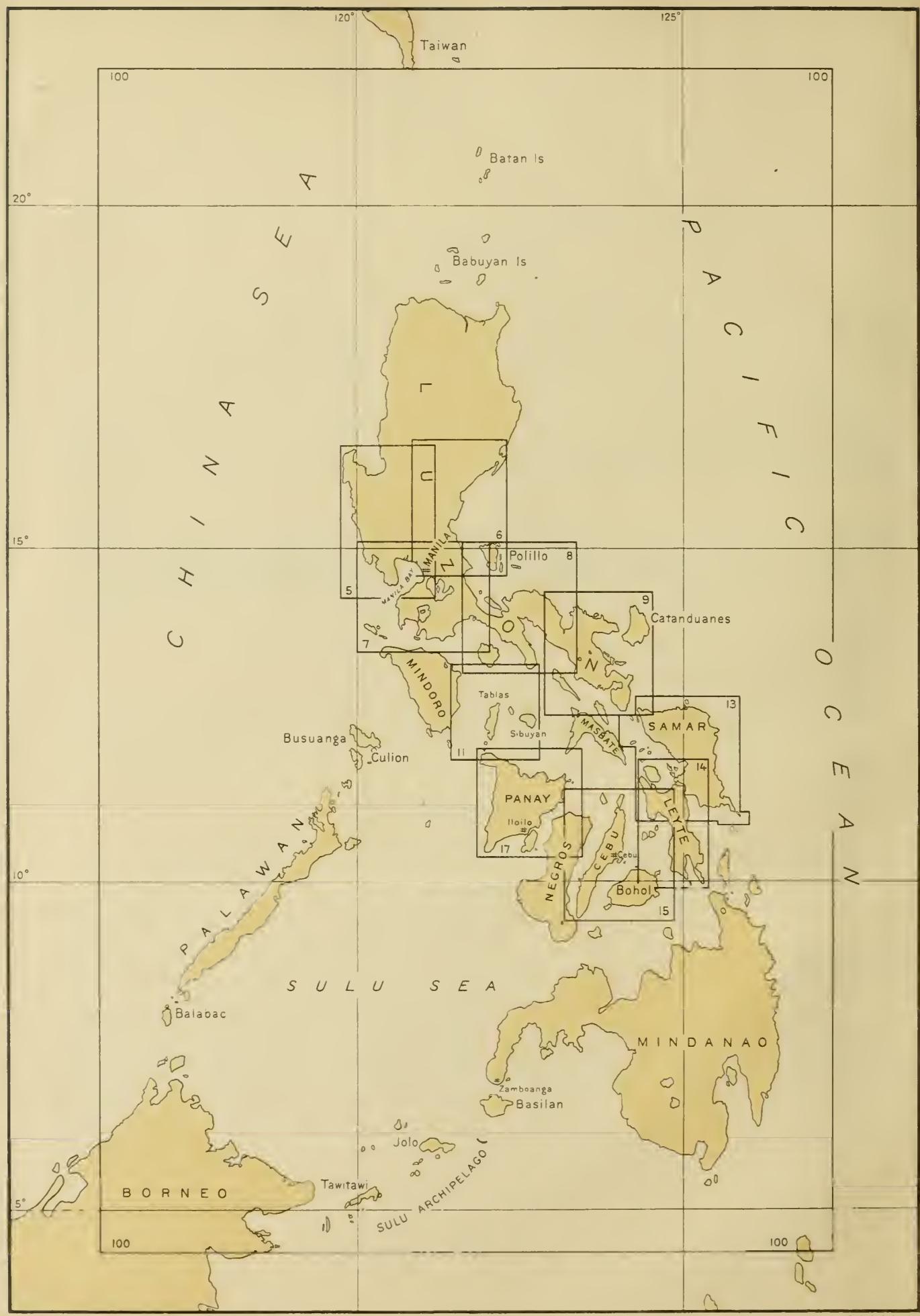
TIDE TABLES.

[Published annually six months in advance.]

	Price.
General Tide Tables.....	\$0.50
Pacific Coast Tide Tables for western North America, eastern Asia, and many island group.....	.10

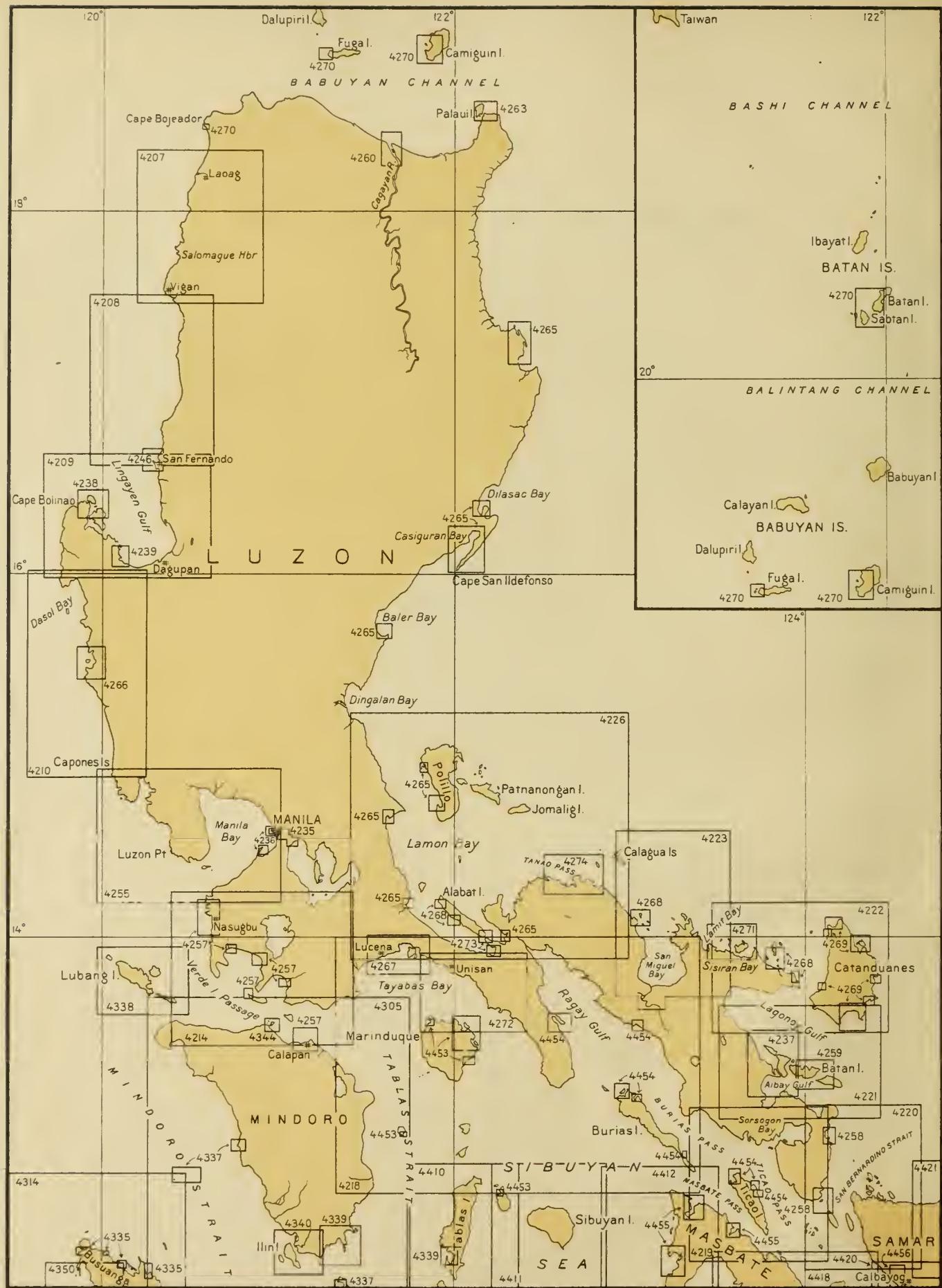
NOTICE TO MARINERS.

Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions of charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U. S. Coast and Geodetic Survey Field Station, Manila, P. I.



TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS.

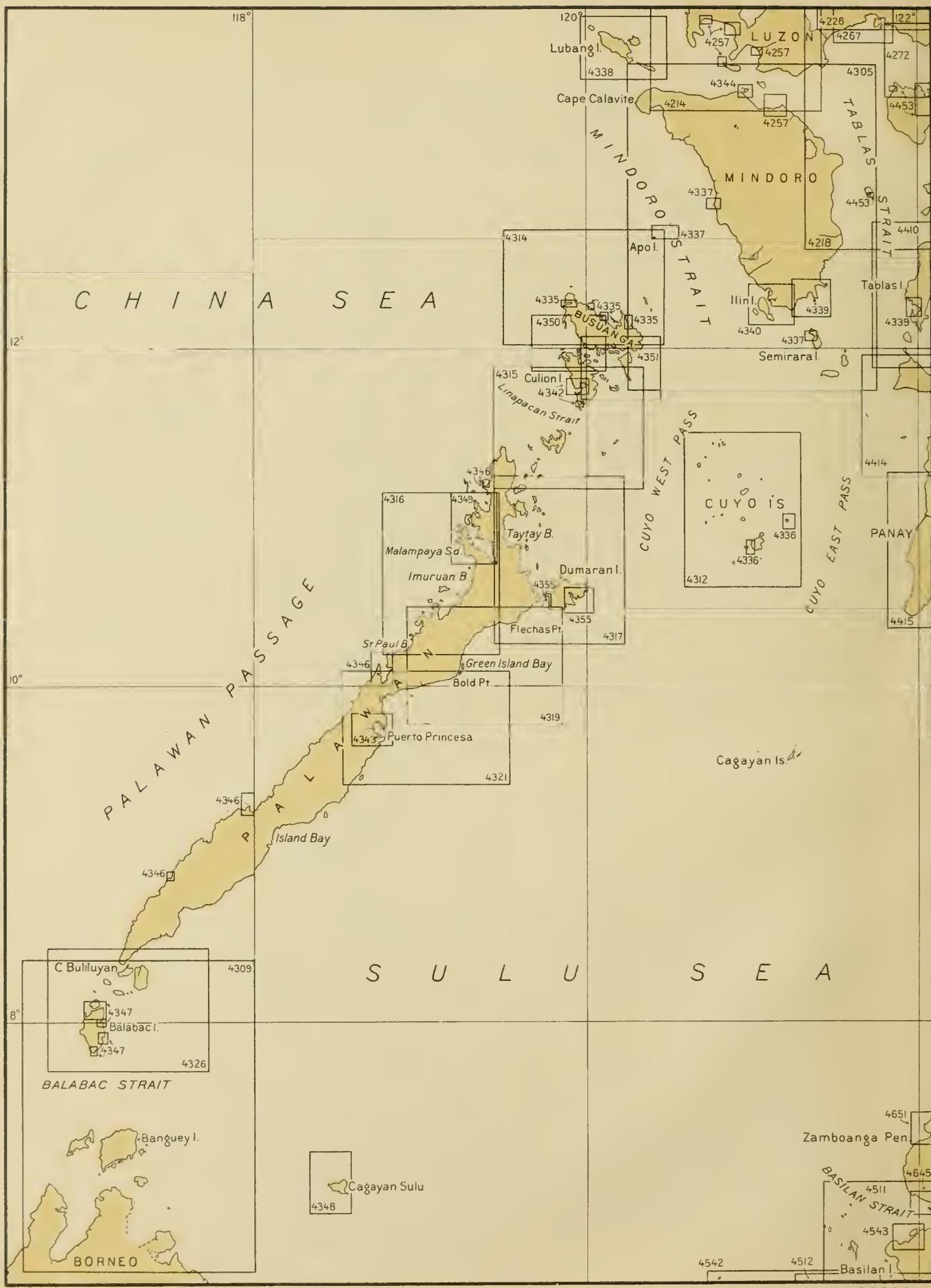
Cat. No.	TITLE.	Scale.	Size.	Date.	Price.	Cat. No.	TITLE.	Scale.	Size.	Date.	Price.
5	Central Luzon.....	1:200,000	<i>Inches.</i> 32×50	1912	\$0.50	13	Samar and adjacent islands....	1:200,000	<i>Inches.</i> 36×40	1920	\$0.75
6	Central Luzon—eastern sheet.	1:200,000	31×45	1919	.75	14	Leyte.....	1:200,000	24×44	1914	.50
7	Southern Luzon.....	1:200,000	36×44	1913	.50	15	Cebu and Bohol.....	1:200,000	38×44	1915	.75
8	Southern Luzon—central sheet	1:200,000	39×44	1916	.75	17	Panay.....	1:200,000	35×38	1912	.50
9	Southern Luzon—southern sheet.....	1:200,000	36×41	1920	.75	100	Philippine Islands (in four sheets).....	1:1,000,000	50×78	1918	2.00
11	Islands of Tablas, Romblon, and Sibuyau.....	1:200,000	30×32	1913	.50						



CHARTS OF THE PHILIPPINE ISLANDS.

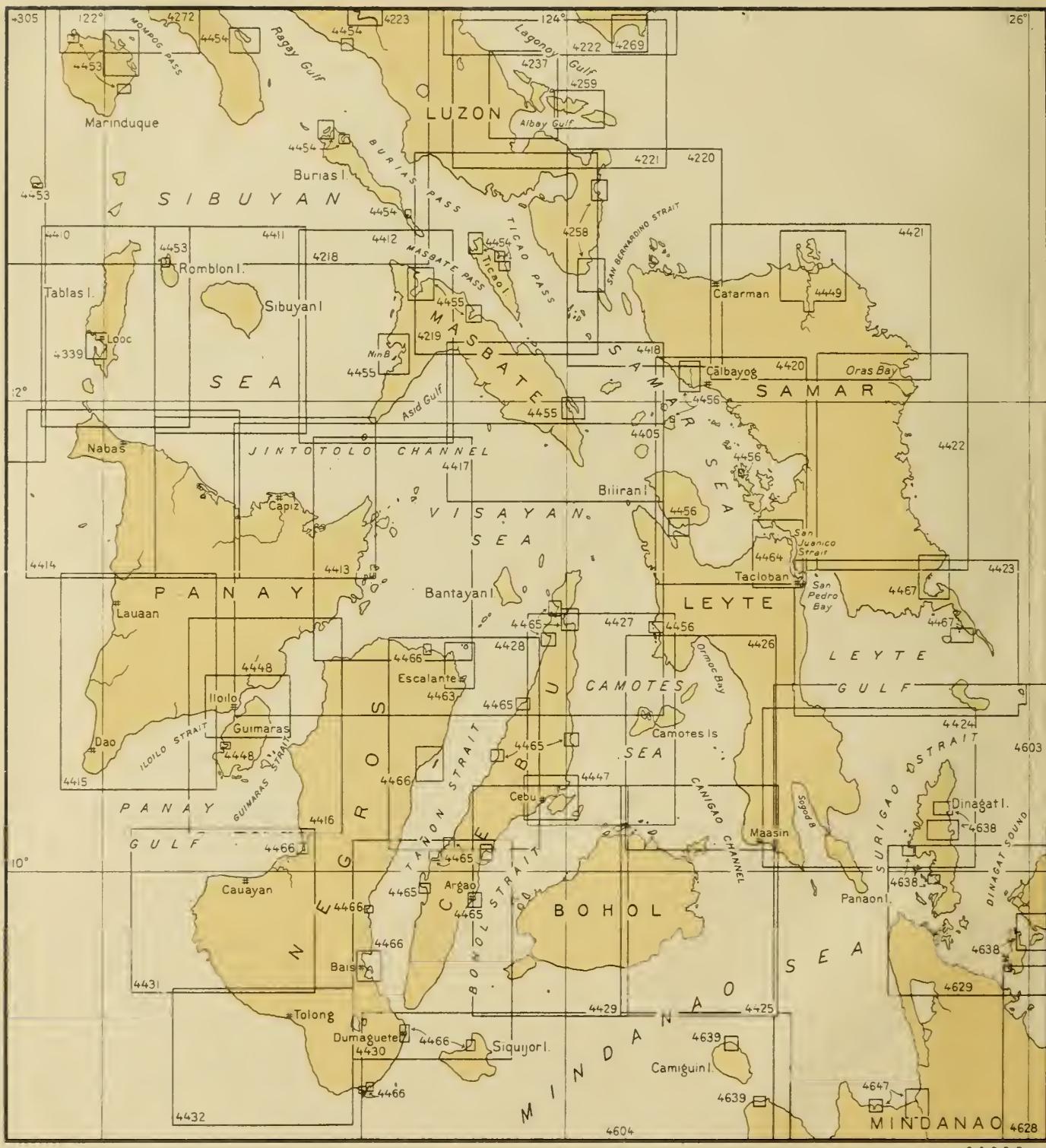
[Numerical arrangement.]

Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
COAST AND HARBOR CHARTS.											
4200	Philippine Islands (sec p. 15).....	1:1,600,000	33×49	1918	\$0.50	4258	Matnog Bay and Tielin Strait, Luzon, I.....	1:30,000	18×26	1916	\$0.20
4207	Laoag to Vigan, Luzon, I..... Port Currimao and Gan Bay.....	1:100,000	31×41	1906	.40	4259	(Port Gabut; Luzon, I.....)	1:20,000			
	Salomague Harbor and Lapog Bay.....	1:20,000	.....	.....	.....	4260	Rapurapu Strait and Catanaga Bay; Batan and Rapurapu, Is.....	1:30,000	23×31	1906	.30
4208	Solvec Cove to San Fernando; Luzon, I.....	1:100,000	31×42	1906	.40	4263	Aparri Anchorage and part of Cagayan River; Luzon, I.....	1:25,000	20×33	1915	.30
	Solvec Cove.....	1:10,000	.....	.....	.....	4265	Port San Vicente and vicinity; Luzon, I.....	1:20,000	25×27	1916	.20
	San Esteban and Nalvo Bay.....	1:20,000	.....	.....	.....		Harbors on east coast of Luzon; Luzon, I.....	.....	25×35	1909	.30
	Santiago Cove.....	1:10,000	.....	.....	.....		Port Dimalansan and Port Bicobian.....	1:60,000	.....	.....	.....
	Darigayos Inlet.....	1:10,000	.....	.....	.....		West Dilasac Bay.....	1:50,000	.....	.....	.....
4209	Lingayen Gulf; Luzon, I.....	1:100,000	31×42	1912	.40		Casiguran Bay.....	1:80,000	.....	.....	.....
	Dagupan.....	1:20,000	.....	.....	.....		Baler Bay.....	1:50,000	.....	.....	.....
4210	Capones Islands to Dasol Bay; Luzon, I.....	1:125,000	24×41	1915	.40		Hook Bay.....	1:20,000	.....	.....	.....
	Santa Cruz Inner Harbor.....	1:30,000	.....	.....	.....		Pollilo Harbor.....	1:30,000	.....	.....	.....
	Iba Anchorage.....	1:30,000	.....	.....	.....		Port Lampon.....	1:20,000	.....	.....	.....
4214	Verde Island Passage.....	1:125,000	31×37	1915	.40		Mauban Anchorage.....	1:20,000	.....	.....	.....
4218	Ragay Gulf to Tayabas Bay; Luzon, I.....	1:200,000	32×45	1920	.50	4266	Port Apat.....	1:20,000	.....	.....	.....
4219	Passages between Luzon and Mashate and Sorsogon Bay.....	1:100,000	35×39	1910	.40	4267	Ports Masinloc and Matalvi and Palauig Bay, Luzon, I.....	1:25,000	29×32	1907	.30
4220	San Bernardino Strait; Luzon and Samar, Is.....	1:100,000	30×41	1917	.40	4268	Lucena Anchorage, Pagbilao Bay and Port Laguimanoc; Luzon, I.....	1:40,000	25×35	1907	.30
	Biri Anchorage.....	1:20,000	.....	.....	.....		Harbors from Alabat to Pitogo Bay.....	.....	26×30	1909	.30
	Mauro River.....	1:10,000	.....	.....	.....		Port Alabat, southwest coast; Alabat, I.....	1:20,000	.....	.....	.....
4221	Albay Gulf and part of Lagonoy Gulf; Luzon, I.....	1:100,000	28×40	1911	.50		Sangirin Bay, northwest coast; Alabat, I.....	1:20,000	.....	.....	.....
4222	Lagonoy Gulf to Lamat Bay and Catandunes Island; Luzon, I.....	1:100,000	32×43	1909	.40		Tabgon Anehorage, east coast; Luzon, I.....	1:30,000	.....	.....	.....
4223	San Miguel and Lamit Bays; Luzon, I.....	1:100,000	29×41	1913	.40		Canimo Pass and Mercedes, east coast; Luzon, I.....	1:25,000	.....	.....	.....
	Continuation of Bicol River.....	1:100,000	.....	.....	.....		Pitogo Bay, east coast; Luzon, I.....	1:15,000	.....	.....	.....
4226	Lamon Bay and Polillo Island.....	1:200,000	31×35	1918	.50	4269	Harbors of Catanduanes.....	.....	24×27	1909	.30
4235	Pasig River; Luzon, I.....	1:10,000	26×42	1913	.30		Cabugao Bay, south coast.....	1:50,000	.....	.....	.....
4236	Manila and Cavite Harbors; Luzon, I.....	.....	21×35	1921	.30		Bagamanoc and Anajao, east coast.....	1:30,000	.....	.....	.....
	Manila Harbor.....	1:10,000	.....	.....	.....		Cobo Bay, west coast.....	1:20,000	.....	.....	.....
	Cavite Harbor.....	1:10,000	.....	.....	.....		Port Manambrag, west coast.....	1:20,000	.....	.....	.....
4237	Tabaco Bay to Legaspi and western part of Albay Gulf; Luzon, I.....	1:40,000	32×41	1908	.30		Pandan Bay, north coast.....	1:30,000	.....	.....	.....
4238	Bolinao Harbor and approaches; Luzon, I.....	1:20,000	35×36	1911	.40	4270	Jimoto Bay, east coast.....	1:20,000	.....	.....	.....
4239	Port Sual to Comas Island; Luzon, I.....	1:15,000	23×38	1904	.30		Kalapadan Bay, cast coast.....	1:30,000	.....	.....	.....
4246	San Fernando Harbor; Luzon, I.....	1:15,000	25×28	1906	.20		Harbors of Batan and Babuyan Islands and northern Luzon.....	.....	23×24	1908	.30
4255	Manila Bay and Coast of Luzon to Capones Islands; Luzon, I.....	1:125,000	27×37	1920	.40		Part of Batan Islands, including Baseo and Ibana.....	1:40,000	.....	.....	.....
	Mariveles Harbor.....	1:20,000	.....	.....	.....		Port San Pio Quinto; Camiguin, I.....	1:60,000	.....	.....	.....
4257	Anchorages, vicinity of Verde Island Passage.....	.....	28×36	1907	.30	4271	Musa Bay; Babuyan, I.....	1:30,000	.....	.....	.....
	Nasugbu and Jamclco Cove; Luzon, I.....	1:50,000	.....	.....	.....		Dirique Inlet; Luzon, I.....	1:10,000	.....	.....	.....
	Balayan; Luzon, I.....	1:10,000	.....	.....	.....		Lamit and Sisiran Bays; Luzon, I.....	1:30,000	30×41	1909	.30
	Taal and Lemery; Luzon, I.....	1:10,000	.....	.....	.....	4272	Unisan to Mulanay and northern part of Marinduque; Luzon and Marinduque, Is.....	1:70,000	28×38	1910	.30
	Batangas; Luzon, I.....	1:15,000	.....	.....	.....	4273	Silangan Pass and Hondagua Harbor, Luzon, I.....	1:20,000	17×32	1913	.20
	Port Maricaban; Maricaban, I.....	1:10,000	.....	.....	.....	4274	Tanao Pass, Luzon, I.....	1:40,000	24×36	1921	.30
	Calapan; Mindoro, I.....	1:40,000	.....	.....	.....		4305 to 4350 (see p. 9). 4410 to 4456 (see p. 11).	.....	.....	.....	.....



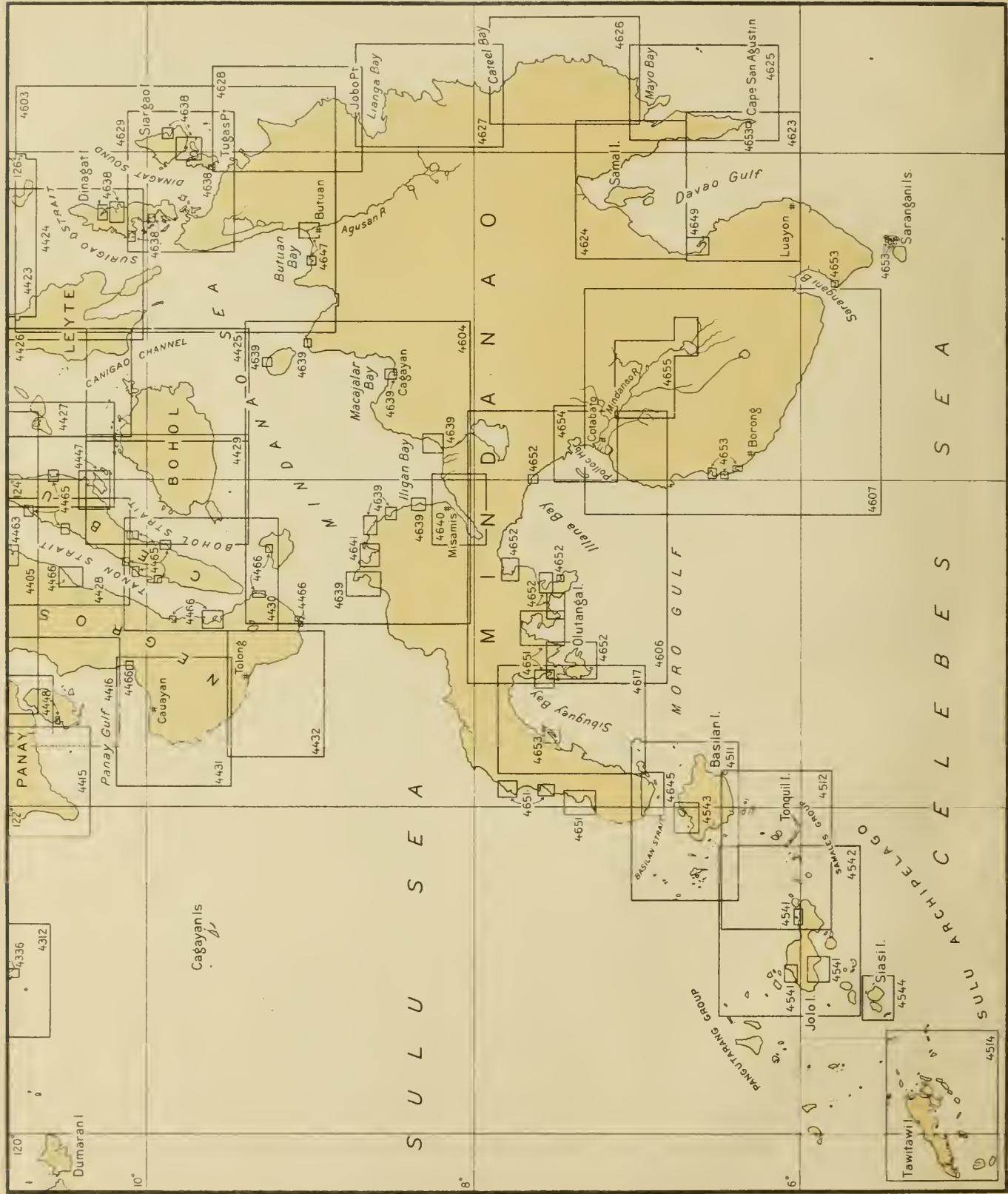
CHARTS OF THE PHILIPPINE ISLANDS—CONTINUED.

Cat.-No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat.-No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.						COAST AND HARBOR CHARTS—Continued.				
	4214 to 4272 (see p. 7).						Anchorages southeastern Mindoro, etc.—Contd.				
4305	Mindoro and vicinity.....	1:200,000	33×43	1919	\$0.50		Lagara Cove and Passes southward; Mindoro, I....	1:20,000	.....	.....
4309	Balabac Strait.....	1:200,000	31×42	1910	.40		Buruncan Point to Pocanil Bay; Mindoro, I.....	1:40,000	.....	.....
4312	Cuyo Islands.....	1:100,000	31×41	1918	.40	4340	Mangarin and Pandarochan Bays; Mindoro, I.....	1:40,000	26×30	1911	\$0.30
4314	Northern part of Busuanga.....	1:100,000	31×42	1919	.40	4342	Halsey Harbor and Dicabaito Anchorage; Culion, I....	1:20,000	23×32	1921	.30
4315	Palawan to Culion Island, including Linapacan Strait.....	1:100,000	32×41	1917	.40		Dicabaito Anchorage.....	1:20,000	.....	.....
4316	Northwest coast of Palawan, Malampaya Sound to St. Paul Bay.....	1:100,000	31×43	1905	.40	4343	Puerto Princesa; Palawan, I.....	1:40,000	23×29	1920	.30
4317	Northeast coast of Palawan, Shark Fin Bay to Flechas Point; Palawan, I.....	1:100,000	31×44	1918	.40	4344	Port Galera and Varadero Bay; Mindoro, I.....	1:10,000	29×35	1910	.30
4319	Green Island Bay and vicinity.....	1:100,000	31×41	1920	.40	4346	Harbors of Palawan Island.....		26×30	1920	.30
	Pascoe Channel, Green, I.....	1:20,000	.....				Bacuit, northwest coast.....	1:15,000	.....	.....
4321	Bold Point to Malanao Island.....	1:100,000	31×43	1920	.40		Ulugan Bay, west coast.....	1:30,000	.....	.....
4326	North Balabac Strait and vicinity.....	1:100,000	32×42	1921	.40		Malanut and Nakoda Bays, west coast.....	1:30,000	.....	.....
4335	Harbors on the north coast of Busuanga.....		18×29	1920	.30		Culasian Bay, west coast.....	1:20,000	.....	.....
	Minuit Anchorage.....	1:20,000	.....			4347	Harbors of Balabac Island.....		23×28	1920	.30
	Illultuk Bay.....	1:20,000	.....				Clarendon Bay, south coast.....	1:15,000	.....	.....
	Port Calton.....	1:20,000	.....				Calandorang Bay, east coast.....	1:15,000	.....	.....
	Minangas Bay.....	1:20,000	.....				Dalawan Bay, east coast.....	1:20,000	.....	.....
4336	Anchorages in Cuyo Islands.....		29×34	1918	.30		Port Ciego, north east.....	1:40,000	.....	.....
	Tagauayan Islands.....	1:10,000	.....			4348	Cagayan Sulu and adjacent islands.....	1:75,000	19×37	1905	.30
	Cuyo Anchorage and Bisucay Channel.....	1:10,000	.....				Lapunlapun Anchorage.....	1:15,000	.....	.....
4337	Anchorages west and south of Mindoro; Mindoro, I.....		28×36	1916	.30	4349	Malampaya Sound and approaches; Palawan, I.....	1:50,000	25×38	1908	.40
	Apo Reef.....	1:20,000	.....			4350	Western entrance to Coron Bay; Calamian Group.....	1:50,000	30×39	1919	.40
	Sablayan Anchorage and Pandan Bay.....	1:20,000	.....			4351	Coron Bay; Calamian Group.....	1:50,000	33×41	1916	.40
	Semirara Anchorage.....	1:20,000	.....				Culion Landing.....	1:2,000	.....	.....
4338	Lubang Islands.....	1:60,000	28×38	1914	.30	4355	Harbors on Dumaran Island.....	1:20,000	33×38	1920	.30
	Golo Pass.....	1:20,000	.....				Dumaran Bay.....	1:20,000	.....	.....
4339	Anchorages southeastern Mindoro and Tablas Island.....		25×37	1912	.30						
	Looc Bay; Tablas, I.....	1:40,000	.....				4410 to 4453 (see p. 11).				
							4511 to 4651 (see p. 13).				



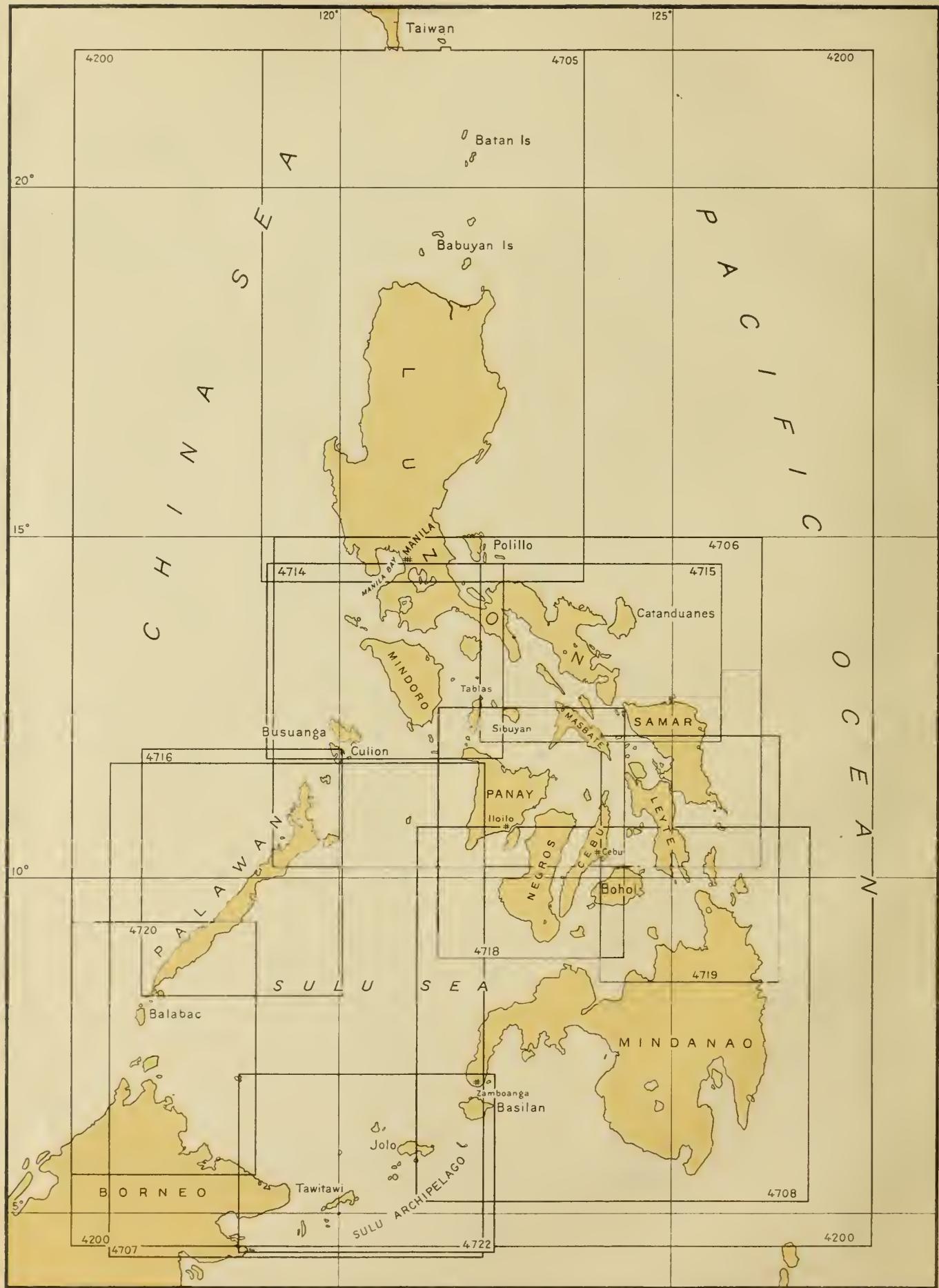
CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.					4451	COAST AND HARBOR CHARTS—Continued.				
	4218 to 4272 (see p. 7). 4305 to 4339 (see p. 9).						Harbors on Burias and Ticao Islands and Ragay Gulf.	31×33	1920	\$0.30	
4405	Visayan Sea.....	1:200,000	28×41	1914	\$0.50		Port Pusgo, Ragay Gulf; Luzon, I.....	1:30,000			
4410	Tablas Island and vicinity.....	1:100,000	28×38	1913	.40		Pasacao Anchorage, Ragay Gulf; Luzon, I.....	1:20,000			
4411	Sibuyan and Romblon Islands.....	1:100,000	29×39	1914	.40		Port Busin, north coast; Burias, I.....	1:20,000			
4412	Western Masbate.....	1:100,000	30×40	1917	.40		Port Busainga, northeast coast; Burias, I.....	1:15,000			
4413	Northern Panay, Sigt Point to Bulacaué Point.....	1:100,000	30×42	1919	.40		Port Boca Engaño, southeast coast; Burias, I.....	1:10,000			
	Capiz Bay.....	1:30,000					Port San Miguel, northwest coast; Ticao, I.....	1:20,000			
	Port Batan.....	1:30,000					Port San Jacinto, east coast; Ticao, I.....	1:20,000			
4414	Northwestern Panay.....	1:100,000	32×40	1917	.40		Taclogan Bay, east coast of Ticao, I.....	1:20,000			
4415	Southwestern Panay.....	1:100,000	30×40	1913	.40		Harbors on the coast of Masbate.....	28×37	1917	.30	
4416	Iloilo and Guimaras Straits; Panay and Guimaras, Is.....	1:100,000	30×41	1919	.40		Port Barrera, north coast.....	1:30,000			
4417	Northeastern Panay and adjacent islands.....	1:100,000	31×42	1911	.40		Masbate Harbor, northeast coast.....	1:20,000			
4418	Southeast Masbate.....	1:100,000	30×41	1915	.40		Port Cataingan, east coast.....	1:30,000			
4420	Calbayog to Tacloban; Samar and Leyte, Is.....	1:100,000	29×42	1914	.40		Nin Bay, west coast.....	1:30,000			
	Catbalogan Harbor.....	1:35,000					Harbors of Samar and Leyte.....	24×28	1914	.30	
4421	Catarman to Oras Bay; Samar, I.....	1:100,000	30×42	1908	.40		Jibatan River, west coast; Samar, I.....	1:50,000			
	Helm Harbor and San Ramon Bay.....	1:25,000					Santo Niño Harbor; Santo Niño, I.....	1:5,000			
4422	Oras Bay to Matarinao Bay; Samar, I.....	1:100,000	29×41	1908	.40		Parasan Harbor; Daram, I.....	1:10,000			
	Port Libas.....	1:30,000					Biliran Strait; Leyte and Biliran, Is.....	1:20,000			
	Port Borongan.....	1:30,000					Port Palompon; Leyte, I.....	1:10,000			
	Llorente and vicinity.....	1:30,000					Escalante Harbor and vicinity; Negros, I.....	1:20,000	30×41	1909	.30
4423	Southern part of Samar and San Pedro Bay.....	1:100,000	30×43	1910	.40		San Juanico Strait and Jana-batas Channel; Samar and Leyte, Is.....	1:30,000	31×40	1910	.30
4424	Southeast coast of Leyte and Dinagat Island.....	1:100,000	31×41	1913	.40		Northern entrance to San Juanico Strait.....	1:10,000			
	Liloan Bay and Panaon Strait.....	1:10,000					Harbors in Cebu.....	25×32	1912	.30	
4425	Eastern Bohol and part of Leyte.....	1:100,000	31×44	1910	.40		Hagnaya Bay.....	1:30,000			
4426	Southwest coast of Leyte, Ormoc Bay to Maasin.....	1:100,000	30×41	1915	.40		Tuburan.....	1:20,000			
	Maasin.....	1:10,000					Balamiban Bay.....	1:30,000			
4427	East coast of Cebu; Cebu, I.....	1:100,000	28×40	1910	.40		Lambusan.....	1:30,000			
4428	Northern part of Tañon Strait; Negros and Cebu, Is.....	1:100,000	29×40	1911	.40		Dumanjug Bay.....	1:20,000			
4429	Western Bohol; Bohol, I.....	1:100,000	30×44	1911	.40		Moalbual.....	1:20,000			
4430	Tañon Strait, southern part; Cebu and Negros, Is.....	1:100,000	31×42	1911	.40		Argao.....	1:25,000			
4431	Western Negros.....	1:100,000	31×36	1914	.40		Bogo Bay.....	1:30,000			
4432	Southwestern Negros.....	1:100,000	27×35	1913	.40		Carcar Bay.....	1:15,000			
4447	Cebu Harbor and approaches; Cebu, I.....	1:30,000	28×35	1910	.30		Port Carmen.....	1:15,000			
	Cebu Anchorage.....	1:10,000					Barili Bay.....	1:15,000			
4448	Iloilo Strait and Harbor; Panay, I.....	1:50,000	24×32	1919	.30		Harbors in Negros and vicinity.....	32×37	1911	.30	
	Iloilo River.....	1:10,000					Dumaguete; Negros, I.....	1:10,000			
	Santa Ana Bay.....	1:20,000					Himugaan River; Negros, I.....	1:15,000			
4449	Port Palapag and Laoang Bay; Samar, I.....	1:40,000	32×33	1911	.30		Calagecal Bay; Negros, I.....	1:10,000			
4453	Harbors of Marinduque Island and vicinity.....		29×36	1913	.30		Port Canoan; Siquijor, I.....	1:5,000			
	Port Balamaean, northwest coast; Marinduque, I.....	1:10,000					Port Bombonon; Negros, I.....	1:10,000			
	Santa Cruz Harbor and Masagasa Bay, northeast coast; Marinduque, I.....	1:30,000					Refugio Pass; Negros, I.....	1:35,000			
	Torrijos Bay, east coast; Marinduque, I.....	1:5,000					Bais; Negros, I.....	1:30,000			
	Port Concepcion; Maestro de Campo, Is.....	1:10,000					Port Siyt; Negros, I.....	1:10,000			
	Romblon Harbor, west coast; Romblon, I.....	1:10,000					Himamaylan; Negros, I.....	1:20,000			
							Guian Harbor; Samar, I.....	1:20,000	19×31	1911	.30
							Pambujan Harbors; Samar, I.....	1:35,000			
							4603 to 4647 (see p. 13).				



CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	Title.	Scale.	Size of border (inches).	Date of last edition.	Price.	
	COAST AND HARBOR CHARTS—Continued.					4639	COAST AND HARBOR CHARTS—Continued.					
	4312 to 4336 (see p. 9). 4405 to 4466 (see p. 11).						Anchorages in Iligan Bay and vicinity; Mindanao, I.....	29×35	1911	\$0.30		
4511	Basilan Strait; Mindanao and Basilan, Is.....	1:100,000	30×43	1913	\$0.50		Plaridel and Inamucan Bay.....	1:25,000	.....	.....
4512	Samales Group, Sulu Archipelago.....	1:100,000	30×43	1906	.40		Dapitan and Dipolog.....	1:40,000	.....	.....
	Ton Sandungun Channel.....	1:25,000	.....	.....	.....		Canauayor Anchorage.....	1:20,000	.....	.....
4514	Tawitawi Group, Sulu Archipelago.....	1:100,000	31×41	1906	.40		Jimenez.....	1:20,000	.....	.....
	Port Dos Amigos.....	1:15,000	.....	.....	.....		Iligan and Overton Anchorages and Quinalang Cove.....	1:40,000	.....	.....
	Port Bongao.....	1:25,000	.....	.....	.....		Oroquieta.....	1:20,000	.....	.....
	Simanale Bay and Channel.....	1:25,000	.....	.....	.....		Port Mambajao.....	1:10,000	.....	.....
4541	Anchorages, Jolo Island; Jolo, I.....	26×37	1912	.30	4641		Cagayan Anchorage.....	1:20,000	.....	.....
	Jolo Anchorage, north coast.....	1:10,000	.....	.....			Port Misamis; Mindanao, I.....	1:60,000	26×33	1908	.30
	Dalrymple Harbor, north coast.....	1:20,000	.....	.....			Port Misamis.....	1:20,000	.....	.....
	Maibun Bay, south coast.....	1:40,000	.....	.....			Murcielagos Bay; Mindanao, I.....	1:30,000	19×23	1901	.10
4542	Jolo Island and vicinity.....	1:189,000	21×25	1911	.30			Vicinity of Zamboanga Masinloc Anchorage to Caldera Bay; Mindanao, I.....	1:30,000	21×37	1912	.30
4543	Isabela Channel and approaches; Basilan, I.....	1:25,000	25×33	1910	.30	4649		Agusan River entrance; Mindanao, I.....	1:20,000	19×28	1911	.30
4544	Siasi and Lapac Islands.....	1:30,000	31×40	1906	.30	4651		Nasipit Harbor; Mindanao, I.....	1:15,000	
4603	Surigao Strait and vicinity; Mindanao and Leyte, Is.....	1:200,000	34×44	1913	.50			Malalag Bay, south coast; Mindanao, I.....	1:20,000	23×25	1907	.20
4604	Iligan Bay and vicinity.....	1:200,000	31×41	1911	.50			Harbors on the south and west coasts of Mindanao.....	28×32	1913	.30	
4606	Port Sibulan to Polloc Harbor; Mindanao, I.....	1:200,000	28×37	1915	.50			Dumanquilas Bay; Mindanao, I.....	1:75,000	
4607	Cotabato to Sarangani Bay; Mindanao, I.....	1:200,000	31×41	1917	.50			Taba Bay; Mindanao, I.....	1:30,000	
4617	Sibuguey Bay; Mindanao, I..	1:100,000	30×40	1909	.40			Port Santa Maria; Mindanao, I.....	1:40,000	
4623	Southern part of Davao Gulf; Mindanao, I.....	1:100,000	32×41	1913	.40	4652		Panabutan and Cavit Bay; Mindanao, I.....	1:40,000	
4624	Northern part of Davao Gulf; Mindanao, I.....	1:100,000	32×39	1909	.40			Sibuco Bay; Mindanao, I.....	1:100,000	
	Davao.....	1:20,000	.....	.....			Harbors in Illana Bay and vicinity; Mindanao, I.....	31×33	1912	.30	
	Malipano Anchorage.....	1:20,000	.....	.....			Port Sibulan.....	1:60,000	.....	.....
4625	Cape San Augustin to Mayo Bay; Mindanao, I.....	1:100,000	26×40	1914	.40	4653		Port Baras.....	1:20,000	
	Balete Bay.....	1:20,000	.....	.....			Limbug Cove.....	1:15,000	.....	.....
4626	Mayo Bay to Cateel Bay; Mindanao, I.....	1:100,000	30×41	1915	.40			Port Sambulauan.....	1:30,000	
4627	Cateel Bay to Jobo Point; Mindanao, I.....	1:100,000	29×40	1915	.40			Pagadian Bay.....	1:50,000	
	Lamon Anchorage.....	1:20,000	.....	.....			Maligay Bay.....	1:50,000	.....	.....
	Catarman Anchorage.....	1:20,000	.....	.....			Harbors on the south coast of Mindanao, I.....	25×34	1919	.30	
4628	Jobo Point to Tugas Point; Mindanao, I.....	1:100,000	39×40	1913	.40			Lavigan Anchorage; Mindanao, I.....	1:5,000	
	Bitaugan Bay.....	1:30,000	.....	.....			Port Patuco, Sarangani, I.....	1:10,000	.....	.....
4629	Hinatuan Passage; Mindanao, I.....	1:100,000	30×38	1913	.40			Port Bolay, Sarangani, I.....	1:5,000	
	Surigao.....	1:10,000	.....	.....			Port Tumanao, west coast; Sarangani, I.....	1:15,000	.....	.....
4633	Harbors on Dinagat, Siargao and Bucas Islands.....	30×37	1913	.30	4654		Canalasan Cove; Mindanao, I.....	1:20,000	.....	.....
	Dapa Channel.....	1:35,000	.....	.....			Basiatuang Bay; Mindanao, I.....	1:20,000	.....	.....
	Gaas Bay and Inlet.....	1:30,000	.....	.....			Port Lebak; Mindanao, I.....	1:20,000	.....	.....
	Dinagat.....	1:20,000	.....	.....			Tuna Bay; Mindanao, I.....	1:20,000	.....	.....
	Sohutan Bay and Inlet.....	1:20,000	.....	.....			Port Banga; Mindanao, I.....	1:20,000	.....	.....
	San Roque.....	1:25,000	.....	.....	4655		Mindanao River Delta and Polloc Harbor; Mindanao, I.....	1:50,000	34×41	1917	.40
	Port Pilar.....	1:30,000	.....	.....			Parang and Polloc anchorages.....	1:20,000	.....	.....
	Malinao Inlet.....	1:25,000	.....	.....			Cotabato entrance, Mindanao River.....	1:20,000	.....	.....



CHARTS OF THE PHILIPPINE ISLANDS—CONTINUED.

Cat. No.	TITLE.	Scale, ap- proximate.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale, ap- proximate.	Size of border (inches).	Date of last edition.	Price.
	SAILING CHART AND GENERAL CHARTS OF THE COAST.						SAILING CHART AND GENERAL CHARTS OF THE COAST—Continued.				
4200	Philippine Islands.....	1:1,600,000	33×49	1918	\$0.50	4715	Southeastern Luzon and parts of Masbate and Samar.....	1:400,000	30×40	1917	\$0.50
4705	Manila Bay to Taiwan.....	1:800,000	28×44	1919	.50	4716	Palawan.....	1:400,000	34×40	1919	.50
4706	Philippine Islands, central part.....	1:800,000	27×40	1918	.50	4718	Panay, Negros and Cebu, with parts of Bohol and Masbate.	1:400,000	31×41	1917	.50
4707	Philippine Islands, southwest- ern part.....	1:800,000	31×41	1920	.50	4719	Surigao Strait and Leyte, with parts of Samar and Min- danao.....	1:400,000	30×40	1915	.50
4708	Philippine Islands, southeast- ern part.....	1:800,000	31×33	1917	.50	4720	Balabac Strait and approaches	1:400,000	31×41	1919	.50
4714	Southwestern Luzon and Min- doro.....	1:395,000	32×39	1920	.50	4722	Sulu Archipelago.....	1:400,000	30×42	1911	.50

TABLE OF SCALE EQUIVALENTS.

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

Scale.	Nautical mile.		Statute mile.	
	Inches.	Centimeters.	Inches.	Centimeters.
1:1,200	60.803	154.44	52.800	134.11
1:2,400	30.401	77.22	26.400	67.06
1:4,800	15.201	38.61	13.200	33.53
1:5,000	14.593	37.06	12.672	32.19
1:10,000	7.296	18.53	6.336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3.648	9.27	3.168	8.05
1:30,000	2.432	6.18	2.112	5.36
1:40,000	1.824	4.63	1.584	4.02
1:50,000	1.439	3.71	1.267	3.22
1:60,000	1.216	3.09	1.056	2.68
1:80,000	.912	2.32	.792	2.01
1:100,000	.730	1.85	.634	1.61
1:200,000	.365	.93	.317	.80
1:400,000	.182	.46	.158	.40
1:1,000,000	.073	.18	.063	.16
1:1,200,000	.061	.15	.053	.13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.



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